

- (e) an A at nucleotide 1784; and
- (f) a C nucleotide 120.

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5. A method for selecting a treatment for a patient suffering from a condition or disease, comprising:

determining whether cells of the patient contain at least two variances in the methylenetetrahydrofolate reductase gene, wherein the presence or the absence of the at least two variances in the cells is indicative of the effectiveness of said treatment for the condition or disease,

wherein the at least two variances are selected from the group consisting of:

- (a) a G at nucleotide 464;
- (b) a T at nucleotide 519;
- (c) a C at nucleotide 1059;
- (e) an A at nucleotide 1784; and
- (f) a C nucleotide 120.